

## **POLYALKYLENE GLYCOL VISCOSITY-ENHANCING POLYMERIC FORMULATIONS**

### **Abstract of the Invention**

5       Hyaluronic acid and polyalkylene glycol (PAG) based materials have  
been found to exhibit a synergistic interaction, in which the viscosity of the  
mixture is more than twice as high as the viscosity expected from the viscosity  
of the individual components. The mixture otherwise has similar properties to  
those of its constituents, and in particular will crosslink to form covalently  
crosslinked gels if the PEG carries crosslinkable groups. The viscous  
10       formulation adheres well to tissue, and has applications as a tissue sealant and in  
tissue coating, prevention of adhesions, cell immobilization, regeneration of  
cartilage, bone and other tissue, as well as in controlled delivery of hyaluronic  
acid to sites in the body. Related materials exhibit similar effects.